ENVIRONMENT, SC and TECH, and CURRENT AFFAIRS

ENVIRONMENT

- 1. With reference to 'Agenda 21', sometimes seen in the news, consider the following statements:
 - 1. It is a global action plan for sustainable development.
 - 2. It originated in the World Summit on Sustainable Development held in Johannesburg in 2002. Which of the statements given above is/ are correct?
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) None of the above
- 2. Proper design and effective implementation of UN-REDD+ Programme can significantly contribute to
 - 1. protection of biodiversity
 - 2. resilience of forest ecosystems
 - 3. poverty reduction

Choose the correct statement(s):

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1,2 and 3
- 3. Consider the following statements:
 - 1. Coal ash contains arsenic, lead and mercury.
 - 2. Coal-fired power plants release sulphur dioxide and oxides of nitrogen into the encironment. Exclusive Coaching
 - 3. High ash content is observed in Indian coal.

Choose the incorrect statement(s)

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above
- 4. Emissions Gap Report 2021 was recently released by:
 - (a) WMO
 - (b) UNEP
 - (c) IPCC
 - (d) IMD
- 5. Consider following statements:
 - 1. The "ecological footprint" is a measure of on earth ecosystems.
 - 2. The carbon footprint is is 84% of the ecological footprint.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 6. Consider following statements regarding IPCC:
 - 1. It is an inter-governmental organization created by WMO, IMD and UNEP.
 - 2. India is not a member.

Select the correct answer using the codes given below:

(a) 1 only

- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 7. Glaciers of the Himalayas: Climate Change, Black Carbon, and Regional Resilience is released by which of the following organization?
 - (a) UNEP
 - (b) WMO
 - (c) WEF
 - (d) WMO
- 8. Consider the following statements with reference to International Solar Alliance (ISA):
 - 1. It was launched at Paris Climate Change Conference in 2015.
 - 2. The USA is not a member of ISA.
 - 3. UN General Assembly (UNGA) confers Observer Status on the International Solar Alliance (ISA).

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above
- 9. Consider following statements regarding Global Tiger Day:
 - 1. International Tiger Day is celebrated annually on July 29.
- (d) Neither 1 nor 2

 10. Consider the following statements with reference to the IUCN:

 1. It is the world's oldest global environmental organization

 2. It is headquartered at Geneva, Switzerland

 3. India is a member of ILICA

 Which of all

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

SCIENCE AND TECHNOLOGY

- 11. Consider following statements:
 - 1. LiFi transmits data using light with the help of LED bulbs.
 - 2. WiFi transmits data using electro-magnetic waves with the help of WiFi router.

Choose the correct code:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 12. A recent study ranked India among top 5 countries in terms of interest in metaverse projects. Consider following statements regarding Metaverse:
 - 1. Metaverse can be understood as a combination of multiple elements of technology, including

virtual reality, augmented reality and video where users "live" within a digitally enhanced surrounding.

2. Metaverse has 7 layers.

Choose the incorrect code:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 13. Consider following statements regarding IndiGau:
 - 1. It is India's first Cattle portal for the conservation of pure varieties of indigenous cattle breeds.
 - 2. It was developed by the National Institute of Animal Biotechnology (Hyderabad).

Choose the correct code:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 14. Recently, the James Webb Space Telescope, NASA's most powerful telescope, is rocketed into orbit. Consider following statements regarding the James Webb Space Telescope:
 - 1. It is NASA's infrared flagship observatory.
- 2. It is an international collaboration between NASA, the European Space Agency (ESA), and the Canadian Space Agency (CSA). (d) Neither 1 nor 2

 15. NASA's Parker Mission is related to:

 (a) Venus

 (b) Black hal

- - (c) Mars
 - (d) Solar
- 16. Consider the following statements about Assisted Reproductive Technology:
 - 1. In India, at present, the statute allows obtaining gametes from any person who has attained 18 years of age and is married.
 - 2. In India, the gamete of a single donor can be given to more than one commissioning couple but the donor will not have any parental rights over the child.
 - 3. In assistive reproductive technology, human embryos can be grown inside animals also.

Which of the statements given above is/are correct?

- (a) 1 and 2
- (b) 2 only
- (c) 1, 2 and 3
- (d) 3 only
- 17. Consider the following statements about an Indian satellite
 - 1. It provides cloud penetration and day-night imaging capability
 - 2. It can be used for paddy monitoring in Kharif season and management of natural disasters
 - 3. It is the first all weather satellite system in India

Which of the following satellite systems of India has the foresaid capabilities?

- (a) Cartosat
- (b) HySIS
- (c) GISAT

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(d) RISAT

- 18. Which of the following statements is not correct about Quantum computers?
 - (a) Quantum computers are larger in size than supercomputers
 - (b) Quantum computers require less energy than super computers
 - (c) Quantum algorithms can use superposition, interference, and entanglement to perform calculations
 - (d) Quantum bits (Qubits) can be in the state of 1 and 0 simultaneously
- 19. 3D-printing can be used for which of the following?
 - 1. Preparation of cakes and biscuits.
 - 2. Making robotic prosthetic limbs.
 - 3. Manufacturing automotive parts.
 - 4. Reconstructive surgeries.
 - 5. Data processing technologies.

Select the correct answer using the code given below:

- (a) 2, 3 and 4 only
- (b) 2, 3 and 5 only
- (c) 1, 2, 3 and 4 only
- (d) 1, 2, 3, 4 and 5
- 20. Which of the following are the gene editing technologies?
 - 1. Prime Editing
 - 2. CRISPR-Cas9
 - 3. Mega nucleases

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

CURRENT AFFAIRS

- 21. Consider the following statements with reference to the International Law Commission:
 - 1. It aims to encourage the progressive development of international law and its codification.
 - 2. The members of the Commission are to be elected by the UN General Assembly from a list of candidates nominated by member countries.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 22. Which of the following pairs are correctly matched?

List I List II

Border Line Bordering country to India

1. McMahon Line Tibet and the North-East India

Radcliffe Line India and Bangladesh
 Durand Line India and Afghanistan

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above
- 23. Which among the following are the members of the New Development Bank?
 - 1. Bangladesh
 - 2. United Arab Emirates

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- 3. Uruguay
- 4. Egypt
- 5. Maldives

Select the correct answer using the code given below:

- (a) 2 and 5 only
- (b) 1,3 and 4 only
- (c) 1,2,3 and 4 only
- (d) All of the above
- 24. Arrange the following commodities in descending order according to their share in India's total export as per Financial Year 2021.
 - 1. Petroleum products
 - 2. Electric Machinery and equipment
 - 3. Iron and Steel
 - 4. Pearl, Precious and semiprecious stones

Select the correct answer from the code given below:

- (a) 4-1-3-2
- (b) 1-4-2-3
- (c) 1-4-3-2
- (d) 4-1-2-3
- 25. Consider following statements regarding Sela Macaque monkey:
 - 1. A new species of monkey recorded from Arunachal Pradesh has been named after Sela Pass
 - 2. It is geographically separated from the Arunachal Macaque of Tawang district by Sela. Choose the incorrect code:
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

